Notebook, N-05-08-30

Aug 30 1905

269½

18000 grew Thro 30 all-fines in
5000 Glucose with some Sick KOH dissolved in it
6000 60×40- 0004 The wet flasks, Thro 15 mark
50 Double Tamps- ended Tight on mix bulbs
inside, 3 lb 5" Drop- New tubes Caps in
end

Wf

Cal

J

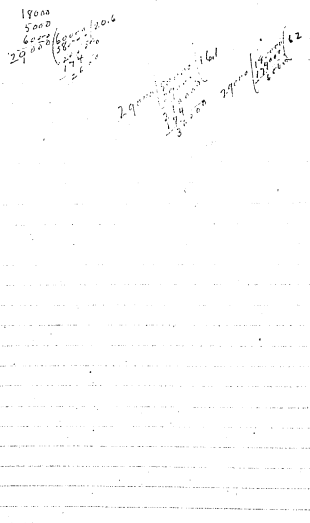
270 Sup ct 269 -
Wright v. N
C & C
Trumpa -

271 - Dup of 269

WT

Cal

J



272

18000 green 1 thro 30 all fines in –
5000 yellow
6000 60440 150 cups ~~Cakes~~ Cake .15 each on 120
50 Strobes Turnips – 3 L 6 5" drop –
Ends closed and Mix – see that Gatti
Ends Tubes to ~~refers~~ use Calliper same
Completed & covered Tubes –
Burs inside – Cups in end flat cups in end

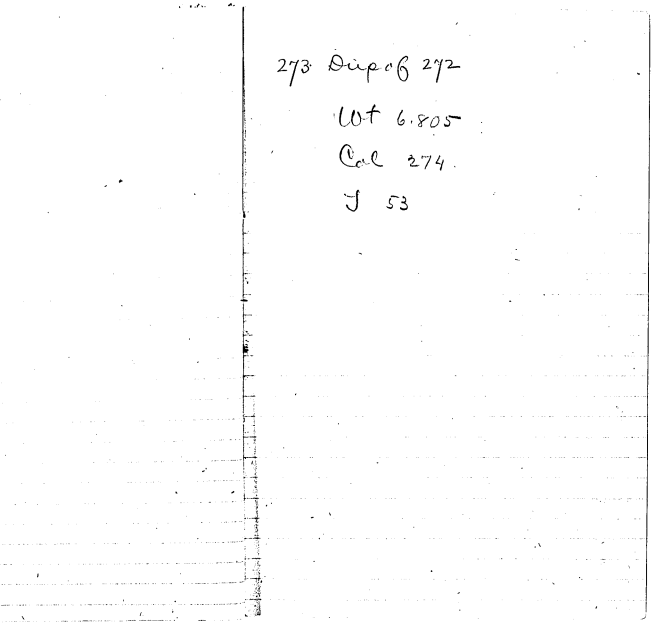
Wt 6695 Cake .0004 –

Cal 274

J 51 Dont count perfect
Can see green

Burrs Inside

green 620
Cake 2016
164
99.0



273 Dupré 272

Lot 6.805

Col 274

J 53

274 Dup of 272

Wt 6.565

Cal 274

J 49

Crack one end

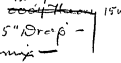
Made ✓ OK

275

18000 green 1hr 30 acc fines in
50000 glycerine
60000 60440 MgSo 150 mm on 60mm 0004 thereon 15 min on SD

50 Double Lamps 3.66 5" Drop - on Cup
Endo with acc on Lamps
BUTTS Outside Tubes made
@ amplify + packed at Scamp
Round Cup ends used -

Wt 6.215



Cal 273 flake 0004 -

J. 49

62 green
16.4 glycerine
20.6 flake

276 Dup of 275

Wt 6.180

Cal 273

J 49

Crack one end

277 Dup of 275

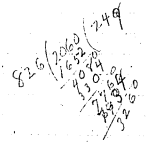
Wt 6.070

Cal 273

J 47

Small crack one end

Thin flake very tough – considerable flow due to [illegible] ordy/all reduced making part of flake brittle. Flow is due to bad Hydrogen diffusion whilst 3 mill fjr – later moving tube foot longer or air part end where it gets cooled part a bent could 6mm flake in – ation edge due to water decomposing or black forming of [illegible] at exit end –



* This flake is thicker than $\frac{1}{10000}$ th 0008 2 which is 5 or 6 times thicker than usual grow evenly to 208 209½ and 3 times thicker than 264 9½ at exhaust

· 278

18000 green Thro 30 fumes all in –
5000 glucose
6000 flake Co only Thro 15" wash on 50
Made by 10 ankers
Theory thickness – 00012 –
50 Rack Jamps 3.16 5" Dia
Ends cleaned with CC mix – see Cubes
Caliper gauge before use – burrs on ends
used Cup at Ends on Thick Rim

(10 f 6.220
CaC 273
Dry 48

62 green
16.4 glucose
20.6 flake

* The flake is too thick it don't cover properly see Lab. of press green phenol & EE about nearly twice as thick 0006 ds so stiff it don't bend around gauge tubes,

1st Run .887 .872 .930 which is the first 1st run just made 2 – Theory + probabilities don't join

279 Dup of 276

Lot 6.330

Col 278

J 51

Tube cracked one end

280 Dupree 278

Wf 6.275

Cal 273

Tax

281 This group to be
the same as 278 Except
the Eyes are to be inside -

Cut 6,800 flake illus 15 on 100,

Col 274

J 53

62 grain
16.4 obsidian
20.6 flake

282 Dup of 281

Wt 6.735

Cal 274

J 53

Crack one end

283 - Dup of 281 -

Wt 6,710

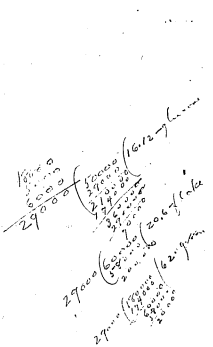
Cal 274

J 51

Crack ends and

Seam 15/0

Reinforced bridge shell on Seam
and safe end and
Cracked with cracks at 4" down tube



Made

284 =

18000 grain Thro 30 all fine

5000 glucose — 150 cap on drum

60000 / 60440 flour 15 mixer

Dry Rice mix before wet and Portellate

50 / Amber 1 cup / 3/16 5" Trap

Dce Ends coarse mix — Burn outside

Round Cups on Ends

Wt 5.110

Cal 273

T. 47

Plate 0.0007

See poor gun cord – Evidently drying with no God either that there no air flowing or dont get enough grain in or to Grille + segregates,

285 Dup of 254

Wt 5.110

CaC 273

T 46

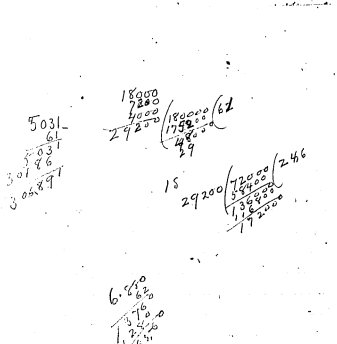
Cracking coal

286 - Dup of 284 -

Wt 5,200

Cal 274

J 48



287-
284 Excepts burs inside

Wt 6.880 flakes thro 15 on 100,
Cal 274
J 54
Breaks one end

288 Dup of 287

Wt 6.860

Col 274

T 52

crack one end

289 Dup of 287

Wt 6.670

Cal 274

T 52

290

18000 green/lino 30 all seasons
5000 glucose
6000 Co & Cf flake – thoroughly 15 minutes
50 Double Tuliips – 3 lb 5" drop
See ends close tight in mix

Burns muscle

Wt
Col
J

291 Dup of 290

Wt

Col

T

292 Dup of 290

Wt

Col

T

293- Thence northeasterly to
290 except Grave outside

Lot
Col
T

294 Dup 6293

Wt

Cal

T

295- Dup of 293

Wt

Cal

J

296 – Index made Carefully & read down at seams

18000 Green Thro 30 [illegible]

5000 [illegible]

6000 Cobalt Plate Throw

50 Double Jumps 3 16 5" Drop –

~~[illegible]~~ Cobalt Plate

Burs outside –

Wet

Coal

T.

297-

Dup. 6 296

wt

Col

T

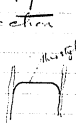
298 Dup of 296

Wt

Cal

T

Turbo made a very fully ✓ Made
299 matched sheet of jewels
18000 Green Thro 30 all finers in
5000 Yellow
Sems 60440 McCa 180 days on Dime on 50
Flake in Chicago 0004 15 minute
Cup on ends Tubes
50 Sections 4 Tramps to section
3 L6 5" Drop
See ends of Cross, in Hicks
used Cup on ends —



Wf 6.815

Col 274 Flake factories no Hum on Yellow. Its good

T 50 Flake some what Cough + Grainly bright —

1st Run 801 770 820 — Thus is good
its like Tramps & that did it —

300 Dup 299

Wt 6.720

Col 273

T 54

cracked both ends

301 Dup of 299

Wt 6.600

Col 273

T 49

302.

18000 Transition 30 pneumatic in
5000 Hours —

7700 Cobalt flake Theory — 15 min

50 Double Tungsten 3CB 5" Drop
See Ends closed and mix —
Burn outside —

Wt
Cal
T

303 Dup of 302

Wt

Cal

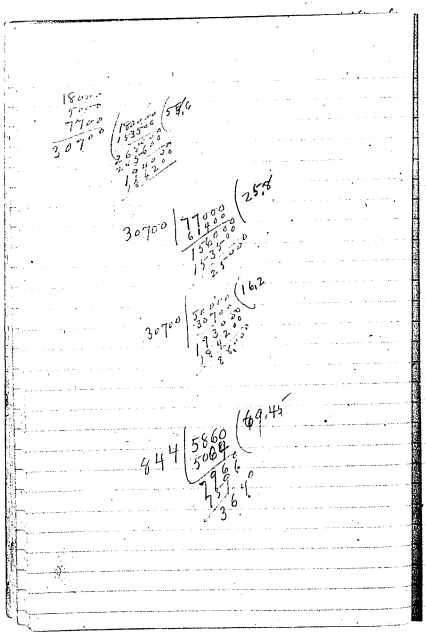
T

304 Dup of 302

Wf

Coal

T



Made ✓

305

18000 grain Mine 30 grain roll mix
5000 Glucose
7700 H2O 60 40 150 Auger Bonnie - 100 lb
50 Double Tamps - 3LB 5" Drop
Burs outside -
See ends C Cover mixing - Cupon Round Cap Sm end

Wt 6.260

Col 273

T 53 flake 00004

58.6 grain
25.8 flake
16.2 glucose -
100 %

306 Dup of 305

Wt 6.140

Col 273

T 47

Crack one end

307 Dupont 305

Wt 6.400

Cal 273

T 51

Crank case end

Made

308 > Tube made Carefully & rolled brim at joint

18000 green thro 30 all fuses in
5000 glucose
6000 60440 - 0004 thick 150 amp thro 15 on 50 —
on brim — Cups on ends of tube —
50 Double lamps 3.66 5" Drop
Several turns of wire around tube
in 3 places — Burns outside —
(Round Copper Ends)

Vel 6.240

Cal 27.3

T .51

flake 00804

Small cracking coil

309 Dupe 6 308

Wt 6.315

Cal 273

T 51

340 - Dup of 308

Vol 6.290

Cal 273

T 51

Small crack on end

811 —

18000 grsm thro 30 cell fines in
6000 Glucose

7000 NiCo 60/40 flake 00047-
thro 15 on 100 mesh —
flat cup on cubic Cribs, good slop on tube
Carefully mix etc
50 Double Lumps —

only covered fair

Lot 6.750 grsm mix not very stable
Cal 272
T 55

391. Moth

18/..
...coated twenty feet on Steam C.C.

No Stickey had to steam fingers
...filling each tube

312 Dup of 311

Lot 6765

C&C 273

T 53

[illegible] straight & singed hair in steam area
[illegible] straight & [illegible] curling
[illegible] Mix came out very little

313 Dep-6311

lot 6765

Ca C 293

T 52

Sam 12/06
Referenced Twinplex fuel [illegible] Stewart
[illegible] Sam 12/06

314-

18000 Green Mus 30 all grades
7000 spruce
7000 Flake Nile 60/40 Mus 15 on 100 -

50 Double Tampon quad tubes. Lap pressed flat Compression end -

Wt 6.980

Burns out with 00004 flake -

Coc 273 approximately

Not perfectly concentric only fairly sticky

T 50

Sticky hard to clean plunger Grease Kim filling each tube

315 Dup of 314

LW + 6,950

Cal C 273

T 51

316—Dup 6314

Lot 6.795

Cal 273

T 49

317 -

18000 Grosmont thro 30 fine & clear
8000 Oolitic
7000 Mile 60/40 thro 15 on 100
50 Double Tamps - New good tube -
Flat Cup on end - Burs outside
00004 flake

Wt 7.060

Cal 275

T 51

Hickey
Tool to clean plunger once while
stocking tube

318 Dup 317

Lot 7.070

Cac 274

T 50

319 Dup 317

wt 7.040

Cal 274

T 49

320—

18000 Q Mno 30 all fines in
10000 Glucose—
7000 Co Mg 60/40 Mno 15 on 100.
New yard tubes Caps & ends—
50 Rumble Tramps 00004 flasks
Rather badly but still glucose spots
bacteria out - Covered OK—
10 of 6.8 20 lbs too sticky for practice
8000 Glucose worked work
CaC 273 7000 OK—
Burns outside
50

Mix did not clear well
Juice when poured in tube

321 Dup of 320

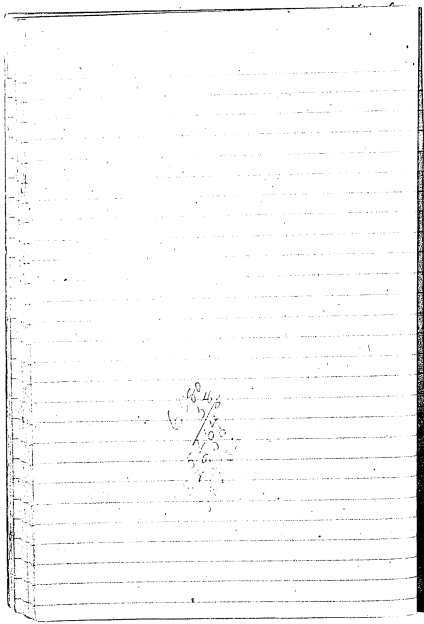
Lot 6-910

CaC 273

T 50

322 Dup of 320

Wt 6.870
Cal 273
T 50



123—

18000 Grand Rivers 30 acc flakes in
6000 Spruce Co
7000 00012 flakes Thus as the thumb
Stiff Cabinet flake used on 2/6
Its 12" rim turns on good 2 bright
organ but uses 6 acc Spruce—
and 7000 flakes—
New cane fitting made Turkey, Capped ends
50 Double Stamps

Wt 6.580 Burrs outside
Cal
T 27 3
4 4

3.81"

Only covers particulars
see Old system - but powder
etc. Packing
Bottle Cabinet than each
Thumper flakes—

Thus worded all myself

324 Dup of 323

Lot 6,800

Cal 273

T 51

325 Dup of 323

Lot 6.870
CaC 273
T 58

126

Removed 328 but
50 sections 4 Tamps to Section.

Wt 7260
Cal 274
T 54 Crushed
Thrown away

4 Tamps to Each
Section —

Burs outside

50 Sections 17

Only Covers partially
Ice Cats green.

x Worked all right.

327 Dup of 326

Wt 6.860
Col 274
T 18

328 Dup of 326

Cut 6.800

Cal 274

T 48

329

18000 grain

5000 Rosin soap-grinder attachment

6000 thick flake cocoa

Ground at once fairly sticky - did not ball & worked at a long time hand with fingers to break up lumps separating until finally loose lots grinding - stirred it was generally mixed or rather distributed. Has good appearance of better Covering - The flake appeared to like up more & not as thick as large - Will be the separation - Mix flows - not dry - flake thick well coated

Burs inside - 50 Double Tramps

Wt 6.250

Col 274

T 50

Capped Ends new tubes good top

Soaked all coated 36 hours

Ready by mixed flake quite thin

in 1½% NOH for 5 minutes

330 — Dup 329

Wt 6.490

Cal 275

T 48

331 Dup 329

Wt 6.560

Cal 275

T 50

18000 Green thio 30 all fumes in
5000 Glucose same ahave been wrong
for long time but Theaker as I put
the dish on sand bath + made it
Theaker + made green very sticky
6000 Thick Ni Ca 70/30 flake 060012
the Thick Kind that dont bend
around green - after putting in
flake I used no pressure to distribute
flats + what is unusual I kept
Mixing for several minutes as the
green aggregates held together as
under got smaller + smaller. The
force used was so light it did not
break up the tough flake appearance
but it got darker + darker as the
green got more broken up until
finally only green fine I then 396
used heavy thumb pressure to
press all together to force the
green together so it was finally
pretty well covered but like
green fine I don't think that was good
because of agglomeration - New Tubed Capped,
Burrs inside, new tube Capped Ends.
50 Double Tamps Wt 6.395 Cal 274 T47

333 Dup of 332

Wet 6.375

Cal 274

T 50

334 Dup of 332

Wt 6.440

Col 274

T 50

335

Thurs 15 on 50

18000 Green Thurs 30 all fines on
6000 Dale Pepper 60000 Thurs 15 on
5000 almost solid Chrome taken put
Green Thurs made paste stiff putty + I thought
it never could be worked but by long time
really got it sticky like Thurs - put in Brake
It balled terribly, had to work it twist +
Several seconds mostly green balls left
in screen - put them in cloth + finger worked
till got balls broke put thro, a thing that
Schaefer would not have tried with Italy
Thurs all balls + mix bone dry - then
commenced work pressing with fingers
until it was very work Covered no
green lumps Flakes not broke up
Thurs - Worth Wrathem + worked
but I believe if no screen Thurs
would be worked - like 6 & 6
mix W 1/2 the usual mix -
Burrs inside -
50 Double T

New Tubes
Capped Ends

Wt	6.065
Cal	275
7	49

336 – Dup 335

Wt	5.915
Cal.	274
T	48

337 Dup 335

Wt	6.065
Cal	2.74
T	51

335

At no time did water show any color & the reasonable To Expect that glucose must decompose to CO2 & H2O formed — of the 38 hours soaking Nine hours was each soak. Calculated on beaker on one inch board on hot plate — just lukewarm —

Fred Otto is putting up 338 & 341 Graphs now. CG —

18000
5000 gluc.
6000
29000 (60000 / 20
50000 / 10
100000

29000 (50000 / 10
39000 / 20
78000

29000 (62500 / 10
125000 / 20
187500 / 30
250000

336

18000 green Mrs 30 cc CC fumes in —
5000 glucose CP — from powder — natural
stiff — 6000 of thick Ca flake 000012 17 grams
Warmed & with grass & glucose —
Didn't ball at all — strong green but
but pretty loose disappointing.
50 Double Tempex 6 cubes inside —
To be soaked in water with only
4 or 5 drops of 20% KOH. To
show alkaline on Lithmus paper
& put on an inch block
of wood on water after it has
soaked 24 hours bad — save
the 1st water for Folsom to test
Keep on board on water 24 hours

put on Monday midnight
In H2O few drops KOH, change
H2O 3 or 4 times till finally fresh
and showed no glucose Folsom test
11:00 am Wednesday
36 hours soak

361 grams

Wt 5.810

62 grams — Cal 273
20 flake
17 glucose

T 52

Burs inside —

dident appear
Aggregate —

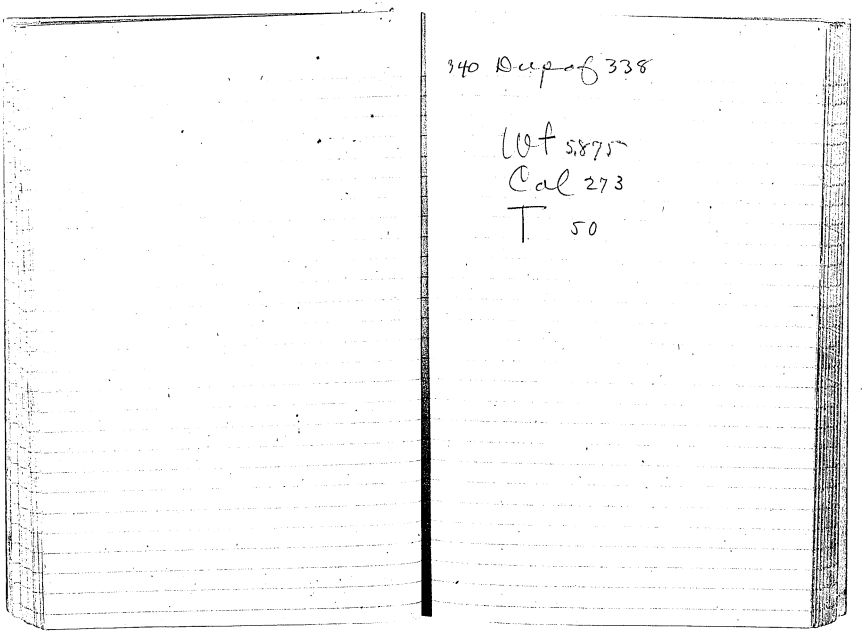
Nice flowed well

339 Dup of 338

Wt 5.780

CaC 273

T 50


340 Dup of 338

LWf 5875
Cal 273
T 50

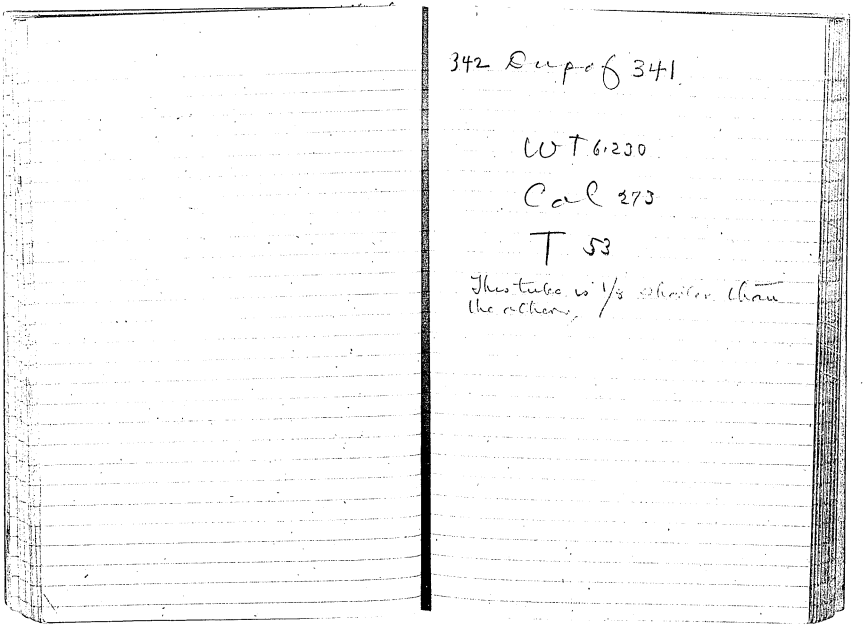
341- Same soaking & manipulation on this group as 338—

both were on same breaker when soaking out glucose

341—

15000 Green Rice 30 all flours in 6000 Coarse Caffaloe Corn 12 5000 Cassava 33⅓ -clean- but dont have sticky properties poor covered- Late grade- it will aggregate badly—
to be soaked 24 hrs in Cold then 24 hours on rack board on hot plate—
50 Double Tamps - New Rubber Caps Burns outside

LOT 6.670 Soaked so as not decompose glucose
CaC 273 Same as 338 washed—
T 53
Segregated badly



342 Dupof 341

WT 6.230

Carl 273

T 53

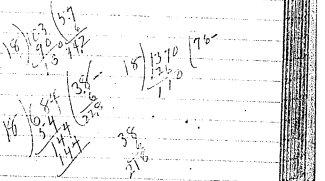
The tube is 1/8 shorter than the others

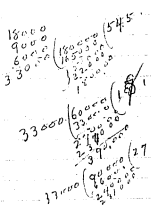
343 Sup.6 341
L of 6,090
Col 273
T 51

Note =

By our regular careful crushing with all sizes - The average weight of the sizes are as follows

Thro 30 on 50	39	50%	684	grammes
" 50 on 100		32%	442	"
" 100 on 150		9%	125	"
" 150 on 200		1%	16	"
" 200 & finer		7.5%	103	"
	Total —		1370	





New method of mixing

18000 green thro 200 mesh & finer
9000 Sugar with 33% KOH
6000 Nickel flake thick & bright, thro
100 mesh & finer —

Thickness of green OK - flake at night seems cover OK - colors more condense back up. There is some balls not yet under micro flake about half covers it but it seems be pretty [illegible] chuck, but not thro & broken up into separate particles — The only trouble will be balls due to fine Cd green however by decreasing there will not be many - perhaps up increasing in thro fine size may help [illegible] recovery — The flake seems to be rather stiff & don't want to bend at all

9000 Sugar OK but chunk 9500 better —

54.5 green
18 flake —
27 Sugar KOH

2nd Lot -

18000 Grain thro 100 on 200
Most was on 150 as that is the natural limit
the way we crush it -

7000 — Sugar with 33⅓% KOH.

6000 flake Nickel thro 80 on 100 -
thick flake - These have 6 oz 8000
sugar it was hard to get it solidly
+ it dont cover well & gets clay in
wiping on it segregates some
The slags when mixed in big batches
I fear segregates a great deal unless
must have excess sugar KOH to
allow for drying while mixing
+ subsequent manipulation —
Has very grain but 6 oz 6 balls

Should have 8000 or 8500
Sugar

18000. green Thro 50 on 100 –
7000 Sugar 33% KOH
6000 Nickel flake Thro 30 on 50 –
Thick bright flake.
Very sticky just about right, scarcely any of any builds – dried okay in mixing
Dipped it on formica approx 6x6
Cooked 6 hr at 275 Eye Not well covered
under Mineral Oil not well mixed
Natural mesh of flake is double + tripple Cooks okay gets slick in mixing – Thru 60 hr –

18000 green thin 30 on 50
5000 sugar + KOH.
6000 flake thin 15 on 30 - Nickel
thick bright flake -
green very very sticky 4500 worked do
set with 5000 at covered good
Brown under microscope -
at ordinary dry -

* Drawings Thro 30 on 50 show the flake to be up against a ridge. It is probable that 30 will be big pieces, Thro 40 on 100 — + Thro 100 all fines in — 111% separately + Thro 15 flake on front & Thro 40 rough flakes in bottom or something like that,

Thro 30 sieved in row on paper shows that 12 pieces end on inches 1/4 inch —

Soaked 80.5 hours after leach 8 hours soaked Cold at 1:1 bal time on mech board on heater = changed water 3 times —

18000
6000

Wt - 6.230
Cal 273
344 T 51

18000 Green Special *
6000 Thick Nickel flake about same size as the 00012 Thick Bright Cobalt flake used in 341-2+3 the flake is very bright + good —

In this mix there is 50% of a mix made of 18000 Green Thro 30 on 50 6000 Ni Thick flake 5000 Oxygen mixed with 33% KOH. See new method of mixing about 4 pages before this page.

32% of a mix Thro 50 on 100 — described on the 4 pages back of this

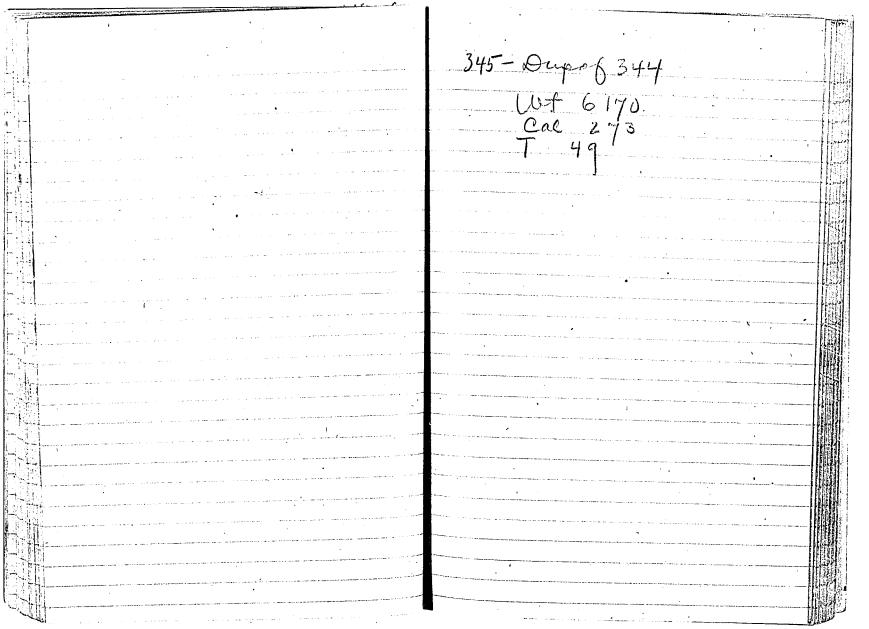
9% of mix Thro 100 on 200 —

8 1/2% of mix all thro 200 —

The object of mixing this way is to keep the fines from sticking to the big pieces

Burn oxide — Strips heated + annealed but tube were not annealed again at high temps as usual

10 Double lamps 5" 3 lbs —
Butterworth rings over tubes —


345 - Dupr f 344
Wf 6170
Cal 273
T 49

346 Dup of 344

Wt 6 169

Cal 273

T 50 Big crack one end at the Cap on top of Cup -

after 50 run hot rubbers all yellow Coated

Soaked 12 hours Cold
on hot same as 344
72-hours -

347 This is a duplicate of
344- Except the mix slaked in
Batches No 1 & 344 10 hours before
mixing to form this mix 9 Hours
hand time to put apron & bowls
Bundles + dry ingredients —
Was 2¼ grams dry to
No 1 + hand No 2 to make up -

after 50 hot runs
Rubber covered
yellow Canal,

Wet 6.290

Cal 273

T 4.9

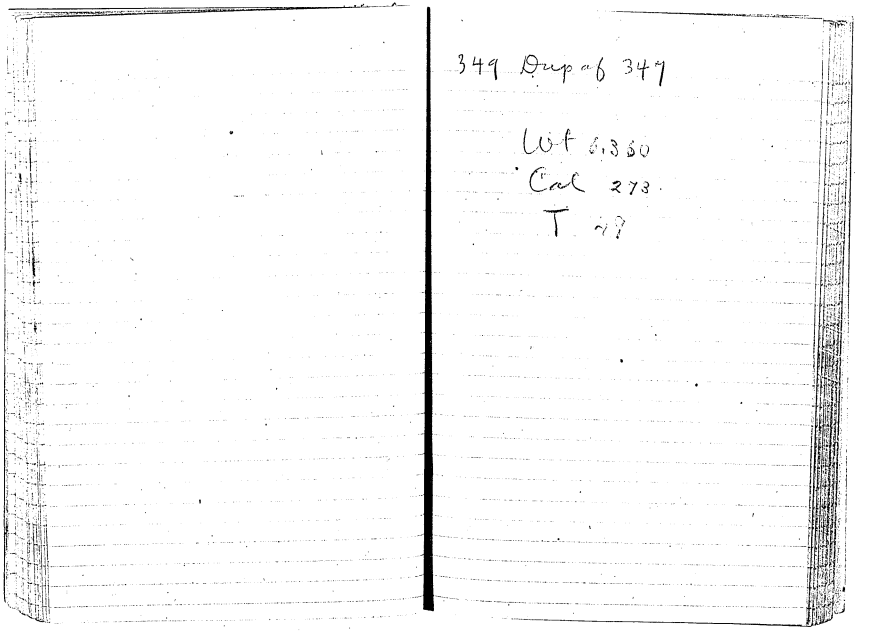
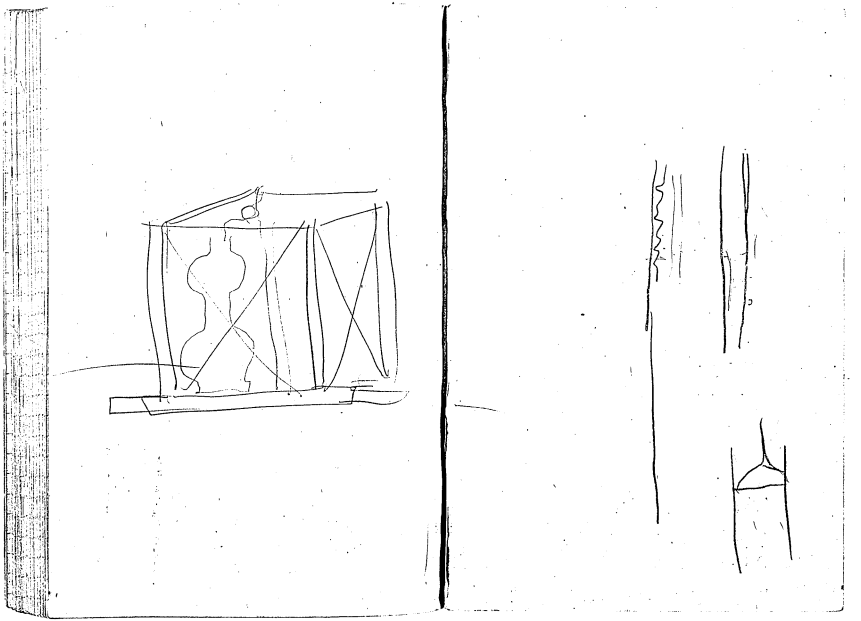
Cracked one end

348 Dup 347

WT 6.283

Card 278

T 50


349 Dup of 347
Lot 6,350
Cal 273
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